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Summary_

Current Software Development Engineer at Amazon Web Services (AWS) with 2+ years of GenAI research experience. My research focuses on democratizing learning in the classroom with GenAI; and AI Alignment, Ethics, and Evaluations (900+ citations as an undergraduate). Additionally, I deeply care for the communities around me, empowering Temple University's CS program for 4 years. Currently, I am looking for research roles in AI Evaluations, Alignment, and Ethics.

Work Experience

Amazon Web Services (AWS)

New York, NY

SOFTWARE DEVELOPMENT ENGINEER

August 2025 - Present

- · Working on AWS Connect, Amazon's Al-native contact center platform, focused on intelligent customer interaction systems
- Redesigned API endpoint metrics in Agent Workspace dashboards.

SOFTWARE DEVELOPMENT ENGINEER INTERN

June 2024 – August 2024

- Implemented an event-driven notification system for customer-agent chat attachment state changes using AWS SNS and EventBridge, providing attachment updates for internal teams.
- · Lead an end-to-end project including stakeholder analysis, architecture design, coding, unit testing, and deployment
- · Streamlined client integration by implementing publishing to deliver customer-agent chat event data, eliminating the need for per-client APIs

Temple University Human-Computer Interaction Lab

Philadelphia, PA

GENERATIVE AI RESEARCH ASSISTANT

Jan. 2022 - May 2025

- Research use of Generative AI to democratize design for the classroom, systems, and cognition, leading to 10 publications at international CS education conferences (ICER, SIGCSE, FIE, ACE, ITICSE, RICHARD TAPIA)
- · Lead a team of 10+ students through the end-to-end research process, showcasing expertise in developing experimental user designs, mitigating risks, analyzing large datasets, and assessing potential outcomes
- Awarded National Goldwater Scholarship for Generative AI research (less than 8% acceptance rate)
- 870 citations, 8 h-index; See my publications on Google Scholar: https://tinyurl.com/2d7k8bhx

Cigna Healthcare Philadelphia, PA

SOFTWARE ENGINEER INTERN

May 2023 - Aug. 2023

- · Contributed to the 'myPassport' application, a Pharmacy Benefits Management (PBM) tool aimed at optimizing the workflow for workers' compensation claim
- Developed API endpoints using Kotlin, Spring/Spring Boot, and PostgreSQL, streamlining data flow across 5+ services associated with the application's business logic
- Built AWS Lambda functions to seamlessly integrate DynamoDB tables and external APIs for real-time data delivery of healthcare data to Next.js frontend

AeroPest Philadelphia, PA

SOFTWARE ENGINEER INTERN

Jan. 2022 - Apr. 2023

- · Architected the AeroPest Al application, elevating pest control safety through the utilization of Skydio drones for precise 3D modeling of buildings
- WBuild RESTful APIs for Computer Vision algorithms with AWS Rekognition to analyze large datasets of pest inspection images taken from drones
- · Participated in strategic discussions, offering insights into fundraising and business model development for startup growth.

IBM Remote

GOOD TECH SCHOLAR, SOFTWARE ENGINEER TRACK

July. 2022 - Aug. 2022

- Developed HumanityWithUS, a web application empowering users to construct personalized data narratives, fostering a deep understanding of poverty-related issues in Philadelphia, PA
- Engineered an interactive spatial exploration interface in React.js, dynamically presenting graphs derived from comprehensive regional data, including average income, cost of living, and more
- · Configured IBM Watson's AI chatbot API into the platform to facilitate user navigation throughout website

Honors & Awards

Barry M. Goldwater Scholarship, Prestigious National Undergraduate Research Award with <7% acceptance rate	2024
Gilman Award, Prestigious National Award for Study Abroad with <25% acceptance rate	2024
Temple University Computer and Information Sciences Leadership Award, High Impact on CS Department	2023
ACM Service Award, High Impact on CS Community	2023
Presidential Scholarship, Full Tuition Scholarship for Academic Merit	2021

Publications	
Hacking Student Leadership: Peer Mentorship and Leadership Skill Development Among Hackathon Organizers K Patel, Andrew Tran, C Kapp, D Bicalho, Y Patel, C Okechukwu, E Rama, S MacNeil Proceedings of the 56th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2025)	2025
Decoding Logic Errors: A Comparative Study on Bug Detection by Students and Large Language Models S MacNeil, P Denny, Andrew Tran, J Leinonen, S Bernstein, A Hellas, S Sarsa, et al. Proceedings of the 26th Australasian Computing Education Conference (ACE 2024), pp. 11–18	2024
Experiences from Using Code Explanations Generated by Large Language Models in a Web Software Development E-Book S MacNeil, Andrew Tran, A Hellas, J Kim, S Sarsa, P Denny, S Bernstein, et al. Proceedings of the 54th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2023)	2023
The Implications of Large Language Models for CS Teachers and Students Stephen MacNeil, Joanne Kim, Juho Leinonen, Paul Denny, Seth Bernstein, Brett A Becker, Michel Wermelinger, Arto Hellas, Andrew Tran, Sami Sarsa, James Prather, Viraj Kumar Proceedings of the 54th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2023)	2023
Comparing Code Explanations Created by Students and Large Language Models J Leinonen, P Denny, S MacNeil, S Sarsa, S Bernstein, J Kim, Andrew Tran, et al. Proceedings of the ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2023)	2023
Generating Multiple-Choice Questions for Computing Courses Using Large Language Models Andrew Tran, K Angelikas, E Rama, C Okechukwu, D H Smith, S MacNeil 2023 IEEE Frontiers in Education Conference (FIE 2023), pp. 1–8	2023
Prompt Middleware: Mapping Prompts for Large Language Models to UI Affordances S MacNeil, Andrew Tran , J Kim, Z Huang, S Bernstein, D Mogil <i>arXiv preprint</i> arXiv:2307.01142	2023
Using Large Language Models to Automatically Identify Programming Concepts in Code Snippets Andrew Tran, L Li, E Rama, K Angelikas, S MacNeil Proceedings of the ACM Conference on International Computing Education Research (ICER 2023)	2023
Automatically Generating CS Learning Materials with Large Language Models S MacNeil, Andrew Tran, J Leinonen, P Denny, J Kim, A Hellas, S Bernstein, et al. Proceedings of the 54th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2023)	2022
Generating Diverse Code Explanations Using the GPT-3 Large Language Model S MacNeil, Andrew Tran, D Mogil, S Bernstein, E Ross, Z Huang Proceedings of the ACM Conference on International Computing Education Research (ICER 2022)	2022
Invited Talks, Presentations, and Press Coverage	
Conference Presentations	
CMD-IT/ACM Richard Tapia Conference Broadening Participation in Computing by Designing Hackathons that Engage Local Communities	San Diego, CA 2024
FIE 23: IEEE Frontiers in Education Generating Multiple Choice Questions for Computing Courses using Large Language Models	College Station, TX 2023
SIGCSE 23: Special Interest Group for Computer Science Education The Implication of Large Language Models for CS Teachers and Students	Toronto, CAN 2023
INVITED TALKS	
Temple University College of Science and Technology Dean and Board of Trustees Generative AI Safety and Reliability in Educational Environments	Philadelphia, PA 2025

Andrew Tran · Résumé

AUGUST 15, 2025

Community College of Philadelphia Philadelphia, PA Building, Learning, and Leading: My Computer Science Journey 2025 **Raspberry Pi Seminar Series** Remote Generative AI is Changing Undergraduate Education; and Undergraduate Research Too! 2024 Temple University NSF Research Experience for Undergraduates (REU) Philadelphia, PA Generating Diverse Explanations with Large Language Models 2022 PRESS COVERAGE **Temple University News** World travel and software engineering await this CST grad 2025 **OwlByte Podcast Episode** Networking, Embracing Change and Participation: Andrew Tran's Path to the Goldwater Scholarship **Temple University News** OwlHacks is 30 hours of innovation, problem-solving and community 2024 **Raspberry Pi Foundation Blog** Empowering undergraduate computer science students to shape generative AI research 2024 **Temple University News** Meet Temple's newest Goldwater Scholar 2024 Leadership

Director, OwlHacks, Temple University's Annual Hackathon

2023-2025

Philadelphia, PA

President, Temple University Association for Computing Machinery 2022-2024

Additional AI/ML Projects

EvalEval CoalitionRemote

Al Evaluations Researcher

June 2025 - Present

Philadelphia, PA

- Building an extensible evaluation infrastructure and universal log format for cross-tool sharing of LLM evaluations, improving reproducibility, clarity, and research velocity.
- Wrote 'The Al Evaluation Chart Crisis,' a research-informed critique of model evaluation visuals (error bars, truncated axes, etc.) towards transparent Al benchmarking. Read Blog Here!

Eleuther AI Remote

ML RESEARCHER Aug 2025 - Present

• Creating 100+ item Vietnamese dataset for a multilingual commonsense shared task; authored minimal pairs and labels with cultural QA.

Amazon Remote

AI/ML STUDENT Aug. 2025 - Present

• Engaged in advanced ML/AI coursework and projects through Amazon's Employee Skills Classroom

Education

Temple University

Philadelphia, PA

B.S. IN COMPUTER SCIENCE Aug. 2021 - May 2025

• Presidential Scholar (Full Ride Merit Scholarship)

Temple University Japan

Tokyo, Japan

B.S. IN COMPUTER SCIENCE Jan. 2024 - May 2024

• Spring 2024 Study Abroad Program